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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,571	01/24/2002	Michael Maguire	P 0290479 DKT. 12NP	3445

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EXAMINER

RUDDOCK, ULA CORINNA

ART UNIT	PAPER NUMBER
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1771

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/053,571

Applicant(s)

MAGUIRE, MICHAEL

Examiner

Ula C. Ruddock

Art Unit

1771

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25 and 29-38 is/are pending in the application.
- 4a) Of the above claim(s) 30,35 and 38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25,29,31-34,36,37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. The Examiner has carefully considered Applicant's response filed November 20, 2006. In view of Applicant's remarks, a new prior art reference will be combined with the previously set forth references to render the currently claimed invention unpatentable.
2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Election/Restrictions

3. Claims 30, 35, and 38 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: in the office action mailed July 8, 2003, an election of species was sent out. There were two species: Specie I, drawn to a metal woven mesh, and Specie 2, drawn to a synthetic woven mesh. Therefore, because Applicant elected Specie I, the newly added claims that are drawn to synthetic filaments are considered independent or distinct from the invention originally claimed.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 30, 35, and 38 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

It should be noted that these claims have not yet been withdrawn from the present invention.

Claim Rejections - 35 USC § 103

4. Claims 25, 29, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haver et al. (US 4,691,744) in view of Mizugoshi (US 2,194,865). Haver et al. disclose a filter wire cloth comprising warp and weft wires forming a plurality of alternating patterns comprising at least one intermediate weft wire inserted in the weave and at least one intermediate warp wire inserted in the weave (col 1, ln 49-66). The wires are preferably metal (col 1, ln 11-12). It should be noted that the Examiner is equating the warp wires to the first plurality of filaments in a first direction. Also, the Examiner is equating the weft wires to the second plurality of filaments in a second direction. Finally, the Examiner is equating the intermediate weft wire or the intermediate warp wire of Haver to the first reinforcing filaments in the second direction of the present invention or the intermediate warp wire of Haver to the second reinforcing filaments in the first direction of the present invention. Haver et al. fail to specifically disclose incorporating both intermediate warp and intermediate weft wires.

Mizugoshi (US 2,194,865) disclose a net of square meshes wherein, an auxiliary thread for reinforcements is added to the weft (col 2, ln 4-6) and to the warp (col 2, ln 20-22). Mizugoshi specifically discloses that the auxiliary reinforcing threads may be adopted for both the weft and warp. The threads used may comprise metallic wires (col 2, ln 47-49). It would have been obvious to one having ordinary skill in the art to have used Mizugoshi's disclosure of additional reinforcing threads being added to the weft and warp on the cloth of Haver, motivated by the desire to create a wire cloth having increased strength and durability.

5. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haver et al. (US 4,691,744) and Mizugoshi (US 2,194,865) above, and further in view of Caals (US 1,788,657).

Haver et al. and Mizugoshi disclose the claimed invention except for the teaching that the first and second reinforcing filaments are metal wires of a heavier gauge than the metal wires of the first and second plurality of filaments.

Caals (US 1,788,657) disclose a filter cloth comprising having warp and weft threads woven into the material at the points to be reinforced (col 1, ln 24-46). As seen in Figure 1, warp and weft threads a and b are heavier threads than the warp and weft threads a' and b' (col 1, ln 32-37). The heavier warp and weft threads give zones of different strength. The strengthening bands are woven into the cloth by either warping and weaving stronger yarns at the desired places (col 1, ln 48-50 to col 2, ln 1). It would have been obvious to have used Caals' disclosure of inserted heavier warp and weft threads in the filter cloth of Haver et al. and Mizugoshi, motivated by the desire to create a filter cloth that has different zones of strength.

6. Claims 33, 34, 36, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haver et al. (US 4,691,744) and Mizugoshi (US 2,194,865) above, and further in view of Pall et al. (US 3,327,866). Haver et al. and Mizugoshi disclose the claimed invention except for the teaching that the first and second reinforcing filaments are brazed or welded to the first and second plurality of filaments.

Pall et al. disclose a woven wire mesh that is useful as a filter element and is formed of interwoven metallic filaments (col 1, ln 8-11). The mesh can be juxtaposed with the layers oriented similarly or at an angle to each other. The layers can be bonded by welding or brazing (col 5, ln

Art Unit: 1771

55-60 to col 6, ln 1-6). It would have been obvious to have used Pall's method of bonding via brazing or welding on the first and second plurality of filaments and first and second reinforcing filaments of Haver and Mizugoshi, motivated by the desire to create a filter that has increased lamination strength.

Response to Arguments

7. Applicant's arguments with respect to claims 25, 29, 31-34, 36, and 37 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

UCR

Mla Raddon